

REMARKS

Applicant hereby submits that the enclosures fulfill the requirements under 37 C.F.R. §1.821-1.825. The amendments in the specification merely insert the paper copy of the Sequence Listing and sequence identifiers in the specification. No new matter has been added.

Attached hereto is a marked-up version of the changes made to the specification by the current amendment.

The amendment to Figure 2 serves only to correct a typographic error in the nucleic acid sequence (SEQ ID NO:10) designated "mtbn2" in Figure 2. As shown in the attached marked-up copy of Figure 2, the amendment serves to change nucleotide 295 in the "mtbn2" sequence from a "t" to a "g". The last codon in SEQ ID NO:10 being a stop codon ("tag"), the effect of this amendment is to change the penultimate codon from "taa" to "gaa". While the "taa" codon does not code for any amino acid, the "gaa" codon codes for glutamic acid (E). As shown in the predicted amino acid sequence of the protein encoded by "mtbn2" nucleic acid sequence (designated "MTBN2" in Figure 1; SEQ ID NO:2), the last amino acid in the protein is glutamic acid (E). Thus, the requested change in the nucleotide sequence of "mtbn2" is supported by the amino acid sequence of "MTBN2". This consideration indicates that the "t" in the penultimate codon of SEQ ID NO:10 was indeed a typographic error and should have been a "g". No new matter is added by this amendment to Figure 2.

Note that in both the enclosed computer readable form and the enclosed hard copy of the Sequence Listing, the correct sequence of "mtbn2" (SEQ ID NO:10) is provided.

The amendment to Figure 3 serves only to correct an error in the designation of the protein indicated in Figure 3 to be one of three used to challenge subgroups within four groups of guinea pigs (see Example 1 on page 14 and the description of Figure 3 on page 10 of the specification). From the experimental description on pages 14-15, it is clear that the agent used to challenge the guinea pigs shown by the set of bars on the right of the figure is the "MTBN4" protein. No new matter is added by this amendment to Figure 3.

Applicant : Maria L. Gennaro
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Page : 4

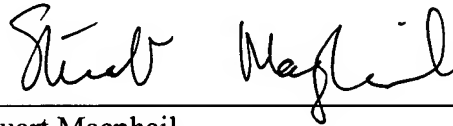
Attorney's Docket No.: 07763-043001

Please apply any charges or credits to Deposit Account No. 06-1050, referencing attorney docket no. 07763-043001.

Respectfully submitted,

Date: _____

4/16/03



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“Version With Markings to Show Changes Made”

In the specification:

Paragraph beginning at page 9, line 31, has been amended as follows:

[Figure 1 is] Figures 1A and 1B are a depiction of the amino acid sequences of *M. tuberculosis* polypeptides MTBN1-MTBN8 (SEQ ID NOs:1-8, respectively).

Paragraph beginning at page 9, line 33, has been amended as follows:

[Figure 2 is] Figures 2A-2E are a depiction of the nucleotide sequences of the coding regions (mtbn1-mtbn8) encoding MTBN1-MTBN8 (SEQ ID NOs:9-16, respectively).



Application No. 10/009,383

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CAR §1.821 - §1.825 for the following reason(s):

- [X] 1. This application clearly fails to comply with the requirements of 37 CAR §1.821 - §1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990, and at 55 FR 18230, May 1, 1990.
- [X] 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CAR §1.821(c).
- [X] 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CAR §1.821(e).
- [X] 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CAR §1.822 and/or §1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing".
- [] 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CAR §1.825(d).
- [] 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CAR §1.821(e).
- [] 7. Other: _____

APPLICANT MUST PROVIDE:

- [X] An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- [X] An initial or substitute paper copy of the "Sequence Listing", as were as an amendment directing its entry into the specification.
- [X] A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CAR §1.821(e) or §1.821(f) or §1.821(g) or §1.825(b) or §1.825(d).

FOR QUESTIONS REGARDING COMPLIANCE WITH THESE REQUIREMENTS, PLEASE CONTACT:

For Rules Interpretation, call (703) 308-1123
For CRF Submission help, call (703)308-4212
For Patent Software help, call (703) 557-0400

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FIG. 2

mtbn1

1	atgactgctg	aaccggaagt	acggacgctg	cgcgaggttg	tgctggacca
51	gctcggcact	gctgaatcgc	gtgcgtacaa	gatgtggctg	ccgccgttga
101	ccaatccggt	cccgtcaac	gagctcatcg	cccgtgatcg	gcgacaaccc
151	ctgcgatttg	ccctggggat	catggatgaa	ccgcgccgcc	atctacagga
201	tgtgtggggc	gtagacgttt	ccggggccgg	cggcaacatc	ggtattgggg
251	gcgcacctca	aaccgggaag	tcgacgctac	tgcagacgat	ggtgatgtcg
301	gccgccgcca	cacactcacc	gcgcaacgtt	cagttctatt	gcacgcacct
351	aggtggcggc	gggctgatct	atctcgaaaa	ccttccacac	gtcgggtgggg
401	tagccaatcg	gtccgagccc	gacaaggcca	accgggtggg	cgcagagatg
451	caagccgtca	tgccggcaacg	ggaaaccacc	ttcaagggaac	accgagtggtg
501	ctcgatcggg	atgtaccggc	agctgcgtga	cgatccaagt	caacccgttg
551	cgtccgatcc	atacggcgac	gtctttctga	tcacgcacgg	atggcccggg
601	tttgtcggcg	agttccccga	ccttgagggg	caggttcaag	atctggccgc
651	ccaggggctg	gcgttcggcg	tccacgtcat	catctccacg	ccacgctgga
701	cagagctgaa	gtcgcgtgtt	cgcgactacc	tcggcaccaa	gatcgagtgc
751	cggcttggtg	acgtcaatga	aaccagatc	gaccggatta	cccgcgagat
801	cccggcgaat	cgtccgggtc	gggcagtgct	gatggaaaag	caccatctga
851	tgatcggcgt	gcccagggtc	gacggcgtgc	acagcggcga	taacctggtg
901	gaggcgatca	ccgcgggggt	gacgcagatc	gcttcccagc	acaccgaaca
951	ggcacctccg	gtgcgggtcc	tgccggagcg	tatccacctg	cacgaactcg
1001	accogaaccc	gccgggacca	gagtccgact	accgcactcg	ctgggagatt
1051	ccgatcggct	tgccgcgagac	ggacctgacg	ccggctcact	gccacatgca
1101	cacgaacccg	cacctactga	tcttcgggtg	ggccaaatcg	ggcaagacga
1151	ccattgccca	cgcgatcgcg	cgcgccattt	gtgcccga	cagtcctccg
1201	caggtgcggt	tcacgtctgc	ggactaccgc	tcgggcctgc	tggaacgcggt
1251	gccggacacc	catctgctgg	gcgcgcggcg	gatcaaccgc	aacagcgcgt
1301	cgctagacga	ggccgttcaa	gcactggcgg	tcaacctgaa	gaagcgggtg
1351	ccgccgaccg	acctgacgac	ggcgcagcta	cgctcgcgtt	cgtggtggag
1401	cggatttgac	gtcgtgcttc	tggtcgacga	ttggcacatg	atcgtgggtg
1451	ccgccggggg	gatgccggcg	atggcaccgc	tggtcccgtt	attgccggcg
1501	gcggcagata	tcgggttgca	catcattgtc	acctgtcaga	tgagccaggc
1551	ttacaaggca	accatggaca	agttcgtcgg	cgccgcattc	gggtcggggcg
1601	ctccgacaat	gttcctttcg	ggcgagaagc	aggaattccc	atccagttag
1651	ttcaaggcca	agcggcgccc	ccctggccag	gcattttctc	tctcgccaga
1701	cggcaaagag	gtcatccagg	ccccctacat	cgagcctcca	gaagaagtgt
1751	tcgcagcacc	cccaagcgcc	ggttaa		

mtbn2

1	atggaaaaaa	tgctcacatga	tccgatcgct	gccgacattg	gcacgcaagt
51	gagcgacaac	gctctgcacg	gcgtgacggc	cggctcgacg	gcgctgacgt
101	cggtgaccgg	gctggttccc	gcggggggccg	atgaggtctc	cgcccaagcg
151	gcgacggcgt	tcacatcgga	gggcatccaa	ttgctggctt	ccaatgcatc
201	ggcccaagac	cagctccacc	gtgcggggcg	agcgggtccg	gacgtcgccc
251	gcacctattc	gcaaatcgac	gacggcgccg	ccggcgtctt	cgcccaatag

↑g

mtbn3

1	atgctgtggc	acgcaatgcc	accggagcta	aataccgcac	ggctgatggc
51	cggcgcgggg	ccggctccaa	tgcttgccgg	ggccgcggga	tggcagacgc
101	tttcggcggc	tctggacgct	caggccgtcg	agttgaccgc	gcgcctgaac

FIG. 2 (continued)

151	tctctgggag	aagcctggac	tggaggtggc	agcgacaagg	cgcttgccgc
201	tgcaacgccg	atggtggtct	ggctacaaac	cgcgtaaca	caggccaaga
251	cccgtgcgat	gcaggcgacg	gcgcaagccg	cggcatacac	ccaggccatg
301	gccacgacgc	cgtcgctgcc	ggagatcgcc	gccaaccaca	tcacccaggc
351	cgtccttacg	gccaccaact	tcttcggtat	caacacgata	ccgatcgct
401	tgaccgagat	ggattatttc	atccgtatgt	ggaaccaggc	agccctggca
451	atggaggtct	accaggccga	gaccgcggtt	aacacgcttt	tcgagaagct
501	cgagccgatg	gcgtcgatcc	ttgatcccgg	cgcgagccag	agcacgacga
551	acccgatctt	cggaatgccc	tcccctggca	gctcaacacc	ggttggccag
601	ttgccgcccg	cggctaccca	gaccctcggc	caactgggtg	agatgagcgg
651	cccgatgcag	cagctgaccc	agccgctgca	gcaggtgacg	tcgttggtca
701	gccaggtggg	cggcaccggc	ggcggcaacc	cagccgacga	ggaagccgcg
751	cagatggggc	tgctcggcac	cagtcgcgtg	tcgaaccata	cgctggctgg
801	tggatcaggc	cccagcgcgg	gcgcgggcct	gctgcgcgcg	gagtcgctac
851	ctggcgcagg	tgggtcggtg	acccgcacgc	cgctgatgtc	tcagctgata
901	gaaaagccgg	ttgccccctc	ggtgatgccg	gcggctgctg	ccggatcgtc
951	ggcgacgggt	ggcgccgctc	cggtgggtgc	gggagcgatg	ggcagggtg
1001	cgcaatccgg	cggctccacc	aggccgggtc	tggtcgcgcc	ggcaccgctc
1051	gcgcaggagc	gtgaagaaga	cgacgaggac	gactgggacg	aagaggacga
1101	ctggtga				

mtbn4

1	atggcagaga	tgaagaccga	tgccgctacc	ctcgcgagg	aggcaggtaa
51	tttcgagcgg	atctccggcg	acctgaaaac	ccagatcgac	caggtggagt
101	cgacggcagg	ttcgttgacg	ggccagtggc	gcggcgcgcc	ggggacggcc
151	gcccaggccg	cgggtggtgcg	cttccaagaa	gcagccaata	agcagaagca
201	ggaactcgac	gagatctcga	cgaatatctg	tcaggccggc	gtccaatact
251	cgagggccga	cgaggagcag	cagcaggcgc	tgtcctcgca	aatgggcttc
301	tga				

mtbn5

1	atggcgcccg	actacgacaa	gctcttcggg	ccgcacgaag	gtatggaagc
51	tccggacgat	atggcagcgc	agccgttctt	cgaccccagt	gcttcggttc
101	cgccggcgcc	cgcatcgcca	aacctaccga	agcccaacgg	ccagactccg
151	cccccgacgt	ccgacgacct	gtcggagcgg	ttcgtgtcgg	ccccgcgcgc
201	gccacccccca	ccccacctc	cgcctccgcc	aactccgatg	ccgatcgccg
251	caggagagcc	gccctcgccg	gaaccggccg	catctaaacc	acccacaccc
301	cccatgcccc	tcgccggacc	cgaaccggcc	ccacccaaac	cacccacacc
351	cccatgccc	atcgccggac	ccgaaccggc	cccacccaaa	ccacccacac
401	ctccgatgcc	catcgccgga	cctgcaccca	ccccaaaccga	atcccagttg
451	gcgcccccca	gaccaccgac	accacaaacg	ccaaccggag	cgccgcagca
501	accggaatca	ccggcgcccc	acgtaccctc	gcacggggcca	catcaacccc
551	ggcgcacccg	accagcacccg	ccctggggcaa	agatgccaat	cgggcgaacc
601	ccgcccgcctc	cgtccagacc	gtctgcgtcc	ccggccgaac	caccgacccg
651	gcctgcccc	caacactccc	gacgtgcgcg	ccgggggtcac	cgctatcgca
701	cagacaccga	acgaaacgtc	gggaaggtag	caactgggtcc	atccatccag
751	gcgcggctgc	gggcagagga	agcatccggc	gcgcagctcg	cccccggaac
801	ggagccctcg	ccagcgccgt	tgggccaacc	gagatcgatat	ctggctccgc
851	ccaccgcgcc	cgcgccgaca	gaacctcccc	ccagcccctc	gcccgcagcg
901	aactccggctc	ggcgtgccga	gcgacgcgtc	caccccgat	tagccgccca

FIG. 2 (continued)

951	acatgccgcg	gcgcaacctg	attcaattac	ggccgcaacc	actggcggtc
1001	gtcgccgcaa	gcgtgcagcg	ccggatctcg	acgcgacaca	gaaatcctta
1051	aggccggcgg	ccaaggggcc	gaaggtgaag	aaggtgaagc	cccagaaacc
1101	gaaggccacg	aagccgcccc	aagtgggtgc	gcagcgcggc	tggcgacatt
1151	gggtgcatgc	gttgacgcga	atcaacctgg	gcctgtcacc	cgacgagaag
1201	tacgagctgg	acctgcacgc	tcgagtcgcg	cgcaatcccc	gcgggtcgta
1251	tcagatcgcc	gtcgtcggtc	tcaaagggtg	ggctggcaaa	accacgctga
1301	cagcagcggt	ggggtcgacg	ttggctcagg	tgccggccga	ccggatcctg
1351	gctctagacg	cggatccagg	cgccggaaac	ctcgccgatc	gggtagggcg
1401	acaatcgggc	gcgaccatcg	ctgatgtgct	tgcagaaaaa	gagctgtcgc
1451	actacaacga	catccgcgca	cacactagcg	tcaatgcggt	caatctggaa
1501	gtgctgccgg	caccggaata	cagctcggcg	cagcgcgcg	tcagcgacgc
1551	cgactggcat	ttcatcgccg	atcctgcgct	gaggttttac	aacctcgtct
1601	tggctgattg	tggggccggc	ttcttcgacc	cgctgaccgg	cggcgtgctg
1651	tccacgggtg	ccgggtgctg	ggctgtggca	agtgtctcaa	tcgacggcgc
1701	acaacaggcg	tcgggtcgct	tggagtgggt	gcgcaacaac	ggttaccaag
1751	atctggcgag	ccgcgcagct	gtggctcatca	atcacatcat	gccgggagaa
1801	cccaatgtcg	cagttaaaga	cctgggtgcg	catttcgaac	agcaagttca
1851	acccggccgg	gtcgtgggtca	tgccgtggga	caggcacatt	gcggccggaa
1901	ccgagatttc	actcgacttg	ctcgacccta	tctacaagcg	caaggtcctc
1951	gaattggccg	cagcgctatc	cgacgatttc	gagagggctg	gacgtcgttg
2001	a				

mtbn6

1	ttgagcgcac	ctgctgttgc	tgctgggtcct	accgccgcgg	gggcaaccgc
51	tgccgcggcct	gccaccaccc	gggtgacgat	cctgaccggc	agacggatga
101	ccgattttggt	actgccagcg	gcgggtgccga	tggaaactta	tattgacgac
151	accgtcgcg	tgctttccga	gggtgttgaa	gacacgcgg	ctgatgtact
201	cggcggtctc	gactttaccg	cgcaaggcgt	gtgggcgttc	gctcgtccc
251	gatcgccgcc	gctgaagctc	gaccagtcac	tcgatgacgc	cggggtgggtc
301	gacgggtcac	tgctgactct	gggtgacagc	agtcgcaccg	agcgtaccg
351	accgttggtc	gaggatgtca	tcgacgcgat	cgccgtgctt	gacgagtcac
401	ctgagttcga	ccgcacggca	ttgaatcgct	ttgtgggggc	ggcgatccc
451	cttttgaccg	cgcccgtcat	cggagtggcg	atgcgggcgt	gggtgggaaac
501	tgggcgtagc	ttgtgggtgg	cgttggcgat	tgccatcctg	gggatcgctg
551	tgctggtagg	cagcttcgct	gcgaacagg	tctaccagag	cgccacccgt
601	gccgagtgcc	tactgggtcac	gacgtatctg	ctgatcgcaa	ccgccgcagc
651	gctggccgtg	ccgttgccgc	gcgggggtcaa	ctcgttgggg	gcgccacaag
701	ttgccggcgc	cgctacggcc	gtgctgtttt	tgacctgat	gacgcggggc
751	ggccctcgga	agcgtcatga	gttggcgctc	tttgccgtga	tcaccgctat
801	cgcggtcac	gcggccgcgg	ctgccttcgg	ctatggatac	caggactggg
851	tccccgcggg	ggggatcgca	ttcgggctgt	tcattgtgac	gaatgcggcc
901	aagctgaccg	tcgcgggtcg	gcggatcgcg	ctgccgcga	ttccggtacc
951	cggcgaaacc	gtggacaacg	aggagttgct	cgatcccgtc	gcgaccccgg
1001	aggctaccag	cgaagaaacc	ccgacctggc	aggccatcat	cgcgtcgggtg
1051	ccgcggtccg	cggtccggct	caccgagcgc	agcaaactgg	ccaagcaact
1101	tctgatcgga	tacgtcacgt	cgggcaccct	gattctgggt	gccgggtgcca
1151	tcgcgggtcgt	ggtgcgcggg	cacttctttg	tacacagcct	gggtgggtcg
1201	ggtttgatca	cgaccgtctg	cggatttcgc	tcgcggcttt	acgccgagcg
1251	ctgggtgtgc	tgggcgttgc	tggcggcgac	ggtcgcgatt	ccgacgggtc
1301	tgacggccaa	actcatcatc	tggtaccgcg	actatgcctg	gctgttgttg



APR 2 3-2003

WO 00/66157

PCT/US00/12257

FIG. 2 (continued)

1351	agcgtctacc	tcacggtagc	cctgggtgcg	ctcgtggtgg	tcgggtcgat
1401	ggctcacgtc	cggcgcggtt	caccgggtcgt	aaaacgaact	ctggaattga
1451	tcgacggcgc	catgatcgct	gccatcattc	ccatgctgct	gtggatcacc
1501	ggggtgtacg	acacggtccg	caatatccgg	ttctga	

mtbn7

1	atggctgaac	cggtggccgt	cgatcccacc	ggcttgagcg	cagcggccgc
51	gaaattggcc	ggcctcggtt	ttccgcagcc	tccggcgccg	atcgcggtca
101	gcggaacgga	ttcggtggtg	gcagcaatca	acgagaccat	gccaaagcatc
151	gaatcgctgg	tcagtgcggt	gctgcccggc	gtgaaagccg	ccctgactcg
201	aacagcatcc	aacatgaacg	cggcgggcga	cgtctatgcg	aagaccgatc
251	agtcactggg	aaccagtttg	agccagtatg	cattcgggtc	gtcggggcgaa
301	ggcctggctg	gcgtcgccct	ggtcggtggt	cagccaagtc	aggctaccca
351	gctgctgagc	acacccggtg	cacaggtcac	gacccagctc	ggcgagacgg
401	ccgctgagct	ggcaccgccg	gttggtgcca	cggtgccgca	actcgttcag
451	ctggctccgc	acgccgttca	gatgtcgcaa	aacgcattcc	ccatcgctca
501	gacgatcagt	caaaccgccc	aacaggccgc	ccagagcgcg	cagggcgggca
551	gcggcccaat	gcccgcacag	cttgccagcg	ctgaaaaacc	ggccaccgag
601	caagcggagc	cgggtccacga	agtgacaaac	gacgatcagg	gcgaccaggg
651	cgacgtgcag	ccggccgagg	tcgttgccgc	ggcacgtgac	gaaggcgccg
701	gcgcattacc	gggccagcag	cccgggcggg	gcgttcccgc	gcaagccatg
751	gataccggag	ccggtgcccg	cccagcgggc	agtcgctggg	cggcccccg
801	cgatccgctc	actccggcac	cctcaacaac	cacaacggtg	tag

mtbn8

1	atgagtatta	ccaggccgac	gggcagctat	gccagacaga	tgetggatcc
51	gggcggctgg	gtggaagccg	atgaagacac	tttctatgac	cgggcccagg
101	aatatagcca	ggttttgcaa	agggtcaccg	atgtattgga	cacctgccgc
151	cagcagaaag	gccacgtctt	cgaaggcggc	ctatgggtccg	gcggcgccgc
201	caatgctgcc	aacggcgccc	tgggtgcaaa	catcaatcaa	ttgatgacgc
251	tgcaggatta	tctcgccacg	gtgattacct	ggcacaggca	tattgcccggg
301	ttgattgagc	aagctaaatc	cgatatcggc	aataatgtgg	atggcgctca
351	acgggagatc	gatatacctg	agaatgaccc	tagcctggat	gctgatgagc
401	gccataccgc	catcaattca	ttgggtcacgg	cgacgcattg	ggccaatgtc
451	agtctggctc	ccgagaccgc	tgagcgggtg	ctggaatcca	agaattggaa
501	acctccgaag	aacgcactcg	aggatttgct	tcagcagaag	tcgccgccac
551	ccccagacgt	gcctaccctg	gtcgtgccat	ccccgggcac	accgggcaca
601	ccgggaaccc	cgatcacccc	gggaaccccg	atcaccccgg	gaacccaat
651	cacaccatc	ccgggagcgc	cggtaaactcc	gatcacacca	acgcccggca
701	ctcccgtcac	gccgggtgacc	ccgggcaagc	cggtcacccc	ggtgaccccg
751	gtcaaaccgg	gcacaccagg	cgagccaacc	ccgatcacgc	cggtcacccc
801	cccggtcgcc	ccggccacac	cggcaacccc	ggccacgccc	gttacccccag
851	ctcccgtccc	acaccgcgag	ccggctccgg	caccggcgcc	atcgccctggg
901	ccccagccgg	ttacaccggc	cactcccggg	ccgtctggtc	cagcaacacc
951	gggcacccca	gggggagcgc	cggcgccgca	cgtcaaacc	gcggcggttg
1001	cggagcaacc	tgggtgtgcc	ggccagcatg	cgggcggggg	gacgcagtcg
1051	gggcctgccc	atgaggacga	atccgcgcgc	tcgggtgacgc	cggctgcggc
1101	gtccggtgtc	ccgggagcac	gggcggcgcc	cgccgcgcgc	agcggtaccg
1151	ccgtgggagc	gggcgcgcgt	tcgagcgtgg	gtacggccgc	ggcctcgggc
1201	gcgggggtcg	atgctgccac	tgggcggggc	ccggtggcta	cctcggacaa

FIG. 2 (continued)

1251	ggcggcgaggca	ccgagcacgc	gggcgggcctc	ggcgcgggacg	gcacctcctg
1301	cccgcgccgcc	gtcgaccgat	cacatcgaca	aacccgatcg	cagcgagtct
1351	gcagatgacg	gtacgcgggt	gtcgatgac	ccggtgtcgg	cggctcgggc
1401	ggcacgcgac	gccgccactg	cagctgccag	cgcccgccag	cgtggccgcg
1451	gtgatgcgct	gcggttggcg	cgacgcacgc	cggcggcgct	caacgcgtcc
1501	gacaacaacg	cgggcgacta	cgggttcttc	tggatcacgc	cggtgaccac
1551	cgacgggttc	atcgctcggtg	ccaacagcta	tgggctggcc	tacatacccg
1601	acgggatgga	attgccgaat	aagggtgtact	tggccagcgc	ggatcacgca
1651	atcccgggtg	acgaaattgc	acgctgtgcc	acctaccg	ttttggccgt
1701	gcaagcctgg	gcggctttcc	acgacatgac	gctgcggggcg	gtgatcggtg
1751	ccgcgggagca	gttggccagt	tccgatcccc	gtgtggccaa	gattgtgctg
1801	gagccagatg	acattccgga	gagcggcaaa	atgacggggc	ggtcgcggct
1851	ggaggtcgtc	gacccctcgg	cggcgggtca	gctggccgac	actaccgatc
1901	agcgtttgct	cgacttggtg	ccgcgggcgc	cggtggtatgt	caatccaccg
1951	ggcgatgagc	ggcacatgct	gtggttcgag	ctgatgaagc	ccatgaccag
2001	caccgctacc	ggccgcgagg	ccgctcatct	gcgggcgttc	cgggcctacg
2051	ctgcccactc	acaggagatt	gccctgcacc	aagcgcacac	tgcgactgac
2101	gcggccgctc	agcgtgtggc	cgtcgcggac	tggctgtact	ggcaatacgt
2151	caccggggtg	ctcgaccggg	ccctggccgc	cgcatgctga	

